



**Safety Data Sheet according to REGULATIONS FOR HAZARDOUS CHEMICAL AGENTS, 2021, published in GG 44348**

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V005.0

Pattex NMN Invisible Cartridge

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

Pattex NMN Invisible Cartridge

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Intended use:

Assembly adhesive, dispersion

**1.3. Details of the supplier of the safety data sheet**

Henkel South Africa (PTY) Ltd.

Cnr Bosworth & Potgieter St

1449 Alberton

South Africa

Phone: +27 (116172400)

ua-productsafety\_za@henkel.com

For Safety Data Sheet updates please visit our website <https://mysds.henkel.com/index.html#/appSelection> or [www.henkel-adhesives.com](http://www.henkel-adhesives.com).

**1.4. Emergency telephone number**

0800 202 202

**SECTION 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**2.2. Label elements**

**Label elements (GHS):**

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

**Supplemental information**

Contains: 1,2-Benzisothiazol-3(2H)-one; Isothiazolinone mixture 3:1 (CIT/MIT) May produce an allergic reaction.

**Precautionary statement:**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P262 Do not get in eyes, on skin, or on clothing.

**2.3. Other hazards**

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Declaration of the ingredients:**

| Hazardous components<br>CAS-No.                     | EC Number<br>REACH-Reg No. | content       | Classification   |
|---|----------------------------|---------------|--|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5           | 220-120-9                  | 50- < 500 PPM | Aquatic Acute 1<br>H400<br>Aquatic Chronic 2<br>H411<br>Acute Tox. 4; Oral<br>H302<br>Skin Irrit. 2<br>H315<br>Skin Sens. 1<br>H317<br>Eye Dam. 1<br>H318<br>Acute Tox. 2; Inhalation<br>H330                                  |
| Isothiazolinone mixture 3:1 (CIT/MIT)<br>55965-84-9 |                            | 1- < 15 PPM   | Acute Tox. 2; Inhalation<br>H330<br>Aquatic Chronic 1<br>H410<br>Acute Tox. 3; Oral<br>H301<br>Acute Tox. 2; Dermal<br>H310<br>Eye Dam. 1<br>H318<br>Skin Sens. 1A<br>H317<br>Aquatic Acute 1<br>H400<br>Skin Corr. 1C<br>H314 |

For full text of the H - statements and other abbreviations see section 16 "Other information".  
Substances without classification may have community workplace exposure limits available.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

General information:

In case of adverse health effects seek medical advice.

Inhalation:

Move to fresh air, consult doctor if complaint persists.

Skin contact:

Rinse with running water and soap. Apply replenishing cream. Change all contaminated clothing.

Eye contact:

Rinse immediately with plenty of running water, seek medical advice if necessary.

Ingestion:

Rinse mouth and throat. Drink 1-2 glasses of water. Seek medical advice.

**4.2. Most important symptoms and effects, both acute and delayed**

No data available.

**4.3. Indication of any immediate medical attention and special treatment needed**

See section: Description of first aid measures

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media:**

carbon dioxide, foam, powder, water spray jet, fine water spray

**Extinguishing media which must not be used for safety reasons:**

High pressure waterjet

**5.2. Special hazards arising from the substance or mixture**

In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO<sub>2</sub>) can be released.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus.

Wear protective equipment.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Wear protective equipment.

Danger of slipping on spilled product.

Avoid contact with skin and eyes.

**6.2. Environmental precautions**

Do not empty into drains / surface water / ground water.

**6.3. Methods and material for containment and cleaning up**

Remove mechanically.

Dispose of contaminated material as waste according to Section 13.

**6.4. Reference to other sections**

See advice in section 8

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Avoid skin and eye contact.

**Hygiene measures:**

Do not eat, drink or smoke while working.

Wash hands before work breaks and after finishing work.

**7.2. Conditions for safe storage, including any incompatibilities**

Store in a cool, frost-free place.

Avoid strictly temperatures below + 5 °C and above + 50 °C.

Do not store together with food or other consumables (coffee, tea, tobacco, etc.).

**7.3. Specific end use(s)**

Assembly adhesive, dispersion

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational Exposure Limits

Valid for  
South Africa

None

#### Occupational Exposure Limits

Valid for  
Kenya

None

#### Predicted No-Effect Concentration (PNEC):

| Name on list  | Environmental<br>Compartment       | Exposure<br>period | Value            |     |                  |        | Remarks |
|---|------------------------------------|--------------------|------------------|-----|------------------|--------|---------|
|   |                                    |                    | mg/l             | ppm | mg/kg            | others |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | aqua<br>(freshwater)               |                    | 0,00403<br>mg/l  |     |                  |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | aqua (marine<br>water)             |                    | 0,000403<br>mg/l |     |                  |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | aqua<br>(intermittent<br>releases) |                    | 0,0011<br>mg/l   |     |                  |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | sewage<br>treatment plant<br>(STP) |                    | 1,03 mg/l        |     |                  |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | sediment<br>(freshwater)           |                    |                  |     | 0,0499<br>mg/kg  |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | sediment<br>(marine water)         |                    |                  |     | 0,00499<br>mg/kg |        |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | Soil                               |                    |                  |     | 3 mg/kg          |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | aqua<br>(freshwater)               |                    | 0,00339<br>mg/l  |     |                  |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | aqua (marine<br>water)             |                    | 0,00339<br>mg/l  |     |                  |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | sewage<br>treatment plant<br>(STP) |                    | 0,23 mg/l        |     |                  |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | sediment<br>(freshwater)           |                    |                  |     | 0,027<br>mg/kg   |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | sediment<br>(marine water)         |                    |                  |     | 0,027<br>mg/kg   |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | Soil                               |                    |                  |     | 0,01 mg/kg       |        |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-<br>methyl-, mixt. with 2-methyl-3(2H)-<br>isothiazolone<br>55965-84-9 | aqua<br>(intermittent<br>releases) |                    | 0,00339<br>mg/l  |     |                  |        |         |

**Derived No-Effect Level (DNEL):**

| Name on list  | Application Area   | Route of Exposure | Health Effect                                | Exposure Time | Value                  | Remarks |
|---|--------------------|-------------------|--|---------------|------------------------|---------|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | Workers            | inhalation        | Long term exposure - systemic effects        |               | 6,81 mg/m <sup>3</sup> |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | Workers            | dermal            | Long term exposure - systemic effects        |               | 0,966 mg/kg            |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | General population | inhalation        | Long term exposure - systemic effects        |               | 1,2 mg/m <sup>3</sup>  |         |
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5   | General population | dermal            | Long term exposure - systemic effects        |               | 0,345 mg/kg            |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone<br>55965-84-9 | Workers            | inhalation        | Long term exposure - local effects           |               | 0,02 mg/m <sup>3</sup> |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone<br>55965-84-9 | Workers            | inhalation        | Acute/short term exposure - local effects    |               | 0,04 mg/m <sup>3</sup> |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone<br>55965-84-9 | General population | inhalation        | Long term exposure - local effects           |               | 0,02 mg/m <sup>3</sup> |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone<br>55965-84-9 | General population | inhalation        | Acute/short term exposure - local effects    |               | 0,04 mg/m <sup>3</sup> |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone<br>55965-84-9 | General population | oral              | Long term exposure - systemic effects        |               | 0,09 mg/kg             |         |
| Mixture, 3(2H)-Isothiazolone, 5-chloro-2-methyl-, mixt. with 2-methyl-3(2H)-isothiazolone<br>55965-84-9 | General population | oral              | Acute/short term exposure - systemic effects |               | 0,11 mg/kg             |         |

**Biological Exposure Indices:**

None

**8.2. Exposure controls:****Respiratory protection:**

Ensure adequate ventilation.

**Hand protection:**

Recommended are gloves made from Nitril rubber ( Material thickness >0,1 mm, Perforation time < 30s).Gloves should be replaced after each short time contact or contamination. Available at laboratory specialized trade or at pharmacies / chemist's shops.

**Eye protection:**

Goggles which can be tightly sealed.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Appearance

paste

solid

white

Odor

specific

Odour threshold

No data available / Not applicable

pH

7,2 - 9,0

|  |   |
|--|---|
| (20 °C (68 °F); Conc.: 100 %)          |   |
| pH                                     | Not applicable  |
| Melting point                          | 0 °C (32 °F)  |
| Solidification temperature             | No data available / Not applicable  |
| Initial boiling point                  | 100 °C (212 °F)   |
| Flash point                            | Not applicable  |
| Evaporation rate                       | No data available / Not applicable  |
| Flammability                           | No data available / Not applicable  |
| Explosive limits                       | No data available / Not applicable  |
| Vapour pressure                        | 23 mbar   |
| (20 °C (68 °F))                        |   |
| Relative vapour density:               | Not applicable, Product is a solid.   |
| Density                                | 1,01 - 1,04 g/cm <sup>3</sup>   |
| (20 °C (68 °F))                        |   |
| Bulk density                           | No data available / Not applicable  |
| Solubility                             | No data available / Not applicable  |
| Solubility (qualitative)               | Partially miscible  |
| (20 °C (68 °F); Solvent: Water)        |   |
| Partition coefficient: n-octanol/water | No data available / Not applicable  |
| Auto-ignition temperature              | No data available / Not applicable  |
| Decomposition temperature              | Not applicable, Substance/mixture is not self-reactive, no organic peroxide and does not decompose under foreseen conditions of use |
| Viscosity                              | No data available / Not applicable  |
| Viscosity (kinematic)                  | Not applicable, Product is a solid.   |
| Explosive properties                   | No data available / Not applicable  |
| Oxidising properties                   | No data available / Not applicable  |

**9.2. Other information**

No data available / Not applicable

**SECTION 10: Stability and reactivity**
**10.1. Reactivity**

None if used for intended purpose.

**10.2. Chemical stability**

Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

See section reactivity

**10.4. Conditions to avoid**

None if used for intended purpose.

**10.5. Incompatible materials**

None if used properly.

**10.6. Hazardous decomposition products**

None known.

**SECTION 11: Toxicological information**
**General toxicological information:**

An allergic reaction cannot be excluded after repeated skin contact.

**11.1. Information on toxicological effects****Acute oral toxicity:**

No data available.

**Acute dermal toxicity:**

No data available.

**Acute inhalative toxicity:**

No data available.

**Skin corrosion/irritation:**

No data available.

**Serious eye damage/irritation:**

No data available.

**Respiratory or skin sensitization:**

No data available.

**Germ cell mutagenicity:**

No data available.

**Carcinogenicity**

No data available.

**Reproductive toxicity:**

No data available.

**STOT-single exposure:**

No data available.

**STOT-repeated exposure::**

No data available.

**Aspiration hazard:**

No data available.

**SECTION 12: Ecological information**

**General ecological information:**

Do not empty into drains, soil or bodies of water.

**12.1. Toxicity**

**Toxicity (Fish):**

No data available.

**Toxicity (Daphnia):**

No data available.

**Chronic toxicity to aquatic invertebrates**

No data available.

**Toxicity (Algae):**

No data available.

**Toxicity to microorganisms**

No data available.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

| Hazardous substances<br>CAS-No.                     | PBT / vPvB  |
|---|---|
| 1,2-Benzisothiazol-3(2H)-one<br>2634-33-5           | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |
| Isothiazolinone mixture 3:1 (CIT/MIT)<br>55965-84-9 | Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria. |

**12.6. Other adverse effects**

No data available.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**



**Product disposal:**

Dispose of waste and residues in accordance with local authority requirements.

**Disposal of uncleaned packages:**

Use packages for recycling only when totally empty.

**Waste code**

080410

**SECTION 14: Transport information****14.1. UN number**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.2. UN proper shipping name**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.3. Transport hazard class(es)**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.4. Packing group**

|      |                     |
|------|---------------------|
| ADR  | Not dangerous goods |
| RID  | Not dangerous goods |
| ADN  | Not dangerous goods |
| IMDG | Not dangerous goods |
| IATA | Not dangerous goods |

**14.5. Environmental hazards**

|      |                |
|------|----------------|
| ADR  | not applicable |
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.6. Special precautions for user**

|     |                |
|-----|----------------|
| ADR | not applicable |
|-----|----------------|

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|      |                |
|------|----------------|
| RID  | not applicable |
| ADN  | not applicable |
| IMDG | not applicable |
| IATA | not applicable |

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information**

No information available:

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

|   |                |
|---|----------------|
| Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009): | Not applicable |
| Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):     | Not applicable |
| Persistent organic pollutants (Regulation (EU) 2019/1021):      | Not applicable |

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**SECTION 16: Other information**

The labelling of the product is indicated in Section 2. The full text of all abbreviations indicated by codes in this safety data sheet are as follows:

- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H310 Fatal in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.

**Further information:**

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

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